

IN THE CLAIM

1 1. (Currently Amended) A method for allowing debugging capability in code  
2 instrumentation that takes a block of original code to produce a block of  
3 instrumented code, comprising the steps of:  
4 providing an instrumentation breakpoint in the block of original code;  
5 running the block of original code including the instrumentation breakpoint  
6 until a breakpoint is reached;  
7 determining whether the breakpoint is the instrumentation breakpoint; and,  
8 if so, then generating the block of instrumented code when the  
9 instrumentation breakpoint is reached;  
10 running the block of instrumented code until a debugging breakpoint is  
11 reached, and  
12 performing debugging functions on the block of instrumented code at the  
13 ~~invoked~~ reached debugging breakpoint.

1 2. (Original) The method of claim 1 wherein the step of providing comprises the step of  
2 replacing a first instruction in the block of original code by the instrumentation  
3 breakpoint.

1 3. (Original) The method of claim 2 wherein the first instruction comprises one or more  
2 instructions.

1 4. (Currently Amended) The method of claim 2 ~~wherein the step of generating further~~  
2 ~~comprises the step of restoring the first instruction to the block of instrumented~~  
3 ~~code.~~

1 5. (Currently Amended) The method of claim 1 ~~wherein the step of providing further~~  
2 comprises the step of providing a debugging breakpoint in either the block of  
3 original code or the block of instrumented code.

1 6. (Currently Amended) A computer-readable medium embodying instructions that cause  
2 a computer to perform a method for allowing debugging capability in code  
3 instrumentation that takes a block of original code to produce a block of  
4 instrumented code, the method comprising the steps of:  
5 providing an instrumentation breakpoint in the block of original code;  
6 running the block of original code including the instrumentation breakpoint  
7 until a breakpoint is reached;  
8 determining whether the breakpoint is the instrumentation breakpoint; and,  
9 if so, then generating the block of instrumented code ~~when the~~  
10 ~~instrumentation breakpoint is reached;~~  
11 running the block of instrumented code until a debugging breakpoint is  
12 reached, and  
13 performing debugging functions on the block of instrumented code at the  
14 ~~invoked~~ reached debugging breakpoint.

1 7. (Original) The computer-readable medium of claim 6 wherein the step of providing  
2 comprises the step of replacing a first instruction in the block of original code by  
3 the instrumentation breakpoint.

1 8. (Original) The computer-readable medium of claim 7 wherein the first instruction  
2 comprises one or more instructions.

1 9. (Currently Amended) The computer-readable medium of claim 7 wherein ~~the step of~~  
2 generating the method further comprises the step of restoring the first instruction  
3 ~~to the block of instrumented code.~~

1 10. (Currently Amended) The computer-readable medium of claim 6 wherein the method  
2 further ~~the step of providing~~ comprises the step of providing a debugging  
3 breakpoint in either the block of original code or the block of instrumented code.

1 11. (Previously Added) The method of claim 2 wherein the debugging breakpoint being  
2 referred to as a first debugging breakpoint and the first instruction being a second  
3 debugging breakpoint.

1 12. (Previously Added) The method of claim 1 wherein the debugging breakpoint being  
2 referred to as a first debugging breakpoint and the instrumentation breakpoint  
3 being replaced by a second debugging breakpoint.

1 13. (Previously Added) The method of claim 1 wherein an instrumentor provides the  
2 instrumentation breakpoint and information related to the instrumentation  
3 breakpoint.

1 14. (Previously Added) The computer-readable medium of claim 7 wherein the debugging  
2 breakpoint being referred to as a first debugging breakpoint and the first  
3 instruction being a second debugging breakpoint.

1 15. (Previously Added) The computer-readable medium of claim 6 wherein the debugging  
2 breakpoint being referred to as a first debugging breakpoint and the  
3 instrumentation breakpoint being replaced by a second debugging breakpoint.

1 16. (Previously Added) The computer-readable medium of claim 6 wherein an  
2 instrumentor provides the instrumentation breakpoint and information related to  
3 the instrumentation breakpoint.